



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

March 4, 2011

Eric Olson
Vice President, Operations
Entergy Operations, Inc.
River Bend Station
5485 US Highway 61N
St. Francisville, LA 70775

SUBJECT: ANNUAL ASSESSMENT LETTER FOR RIVER BEND STATION
(REPORT 05000458/2011001)

Dear Mr. Olson:

On February 3, 2011, the NRC completed its end-of-cycle performance review of River Bend Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2010 through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

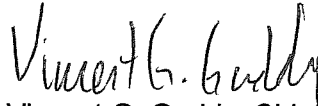
The NRC determined that overall, River Bend Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at River Bend Station during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. Temporary Instruction 2515/177 Inspection, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," which remains to be scheduled, will be completed during the 2011 or 2012 calendar year. Regional personnel will contact you to establish an appropriate time for this activity.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 817-860-8144 with any questions you have regarding this letter.

Sincerely,

A handwritten signature in black ink that reads "Vincent G. Gaddy". The signature is written in a cursive style with a large, stylized "V" and "G".

Vincent G. Gaddy, Chief
Reactor Projects Branch C
Division of Reactor Projects

Docket Nos. 50-458
License Nos. NPF-47

Enclosure: River Bend Inspection/Activity Plan

cc: Distribution via ListServ

02/28/2011 06:55:32

Report 22

River Bend

Inspection / Activity Plan

03/01/2011 - 06/30/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		EP1 - BIENNIAL EP PROGRAM INSPECTION		1
1	03/14/2011 03/18/2011	IP 7111402	Alert and Notification System Testing	
1	03/14/2011 03/18/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	03/14/2011 03/18/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	03/14/2011 03/18/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	03/14/2011 03/18/2011	IP 71151	Performance Indicator Verification	
		EB1-07 - TRIENNIAL HEAT SINK PERFORMANCE		1
1	03/14/2011 03/18/2011	IP 7111107T	Heat Sink Performance	
		TSB-52B - BIENNIAL PI&R		4
1	05/02/2011 05/06/2011	IP 71152B	Identification and Resolution of Problems	
1	05/16/2011 05/20/2011	IP 71152B	Identification and Resolution of Problems	
		RP678 - RADIATION SAFETY TEAM		3
1	09/12/2011 09/16/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	09/12/2011 09/16/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1	09/12/2011 09/16/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		EB1-21 - COMPONENT DESIGN BASIS INSPECTION		8
1	09/26/2011 10/28/2011	IP 7111121	Component Design Bases Inspection	
		EB1-17T - 50.59 & PERM PLANT MODS		2
1	01/30/2012 02/10/2012	IP 711117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	01/30/2012 02/10/2012	IP 711117T-chng/tst	change/test/evaluations	
1	01/30/2012 02/10/2012	IP 711117T-evals	evaluations	
1	01/30/2012 02/10/2012	IP 711117T-permod	permanent mods	
		RS34 - RADIATION SAFETY		2
1	02/27/2012 03/02/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	02/27/2012 03/02/2012	IP 71124.04	Occupational Dose Assessment	
		EP-1 - BIENNIAL EP EXERCISE		3
1	06/11/2012 06/15/2012	IP 7111401	Exercise Evaluation	
1	06/11/2012 06/15/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	06/11/2012 06/15/2012	IP 71151-EP01	Drill/Exercise Performance	
1	06/11/2012 06/15/2012	IP 71151-EP02	ERO Drill Participation	
1	06/11/2012 06/15/2012	IP 71151-EP03	Alert & Notification System	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.